



SPYWOLF

Security Audit Report



Completed on
June 27, 2022

MADE IN USA 

@SPYWOLFNETWORK



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SPYWOLF.CO





OVERVIEW

This audit has been prepared for **Yggdrasil Finance** to review the main aspects of the project to help investors make an informative decision during their research process.

You will find a summarized review of the following key points:

- ✓ Contract's source code
- ✓ Owners' wallets
- ✓ Tokenomics
- ✓ Team transparency and goals
- ✓ Website's age, code, security and UX
- ✓ Whitepaper and roadmap
- ✓ Social media & online presence

“

The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal

- SPYWOLF Team -

”





TABLE OF CONTENTS

Project Description	01
Contract Information	02
Current Stats	03-04
Featured Wallets	05
Vulnerability Check	06
Threat Levels	07
Found Threats	08-A/08-C
Good Practices	09
Tokenomics	10
Team Information	11
Website Analysis	12
Social Media & Online Presence	13
About SPYWOLF	14
Disclaimer	15



Yggdrasil Finance



PROJECT DESCRIPTION

According to their whitepaper:

Yggdrasil Network offers to launch an NFT game which allow the players to play and earn token rewards.

Yggdrasil Network will build own ecosystem with interlinked utilities such as Decentralized Finance (DeFi), Staking, Play-To-Earn (P2E) Gaming, NFT Assets, mobile wallet application where user can store and exchange their tokens and metaverse.

Release Date: Presale starts on June, 2022

Category: Play to earn (P2E) / NFT



CONTRACT INFO

Token Name
YGGDRASIL

Symbol
YGD

Contract Address

0x9b91e3956F38634FbF25D8Fb0A0B0ba1A8531AE6

Network

Binance Smart Chain

Language

Solidity

Deployment Date

June 27, 2022

Verified?

Yes

Total Supply

1,000,000,000

Status

Not launched

TAXES

Buy Tax

7%

Sell Tax

4%

*Taxes can be changed in future



Our Contract Review Process

The contract review process pays special attention to the following:

- ✓ Testing the smart contracts against both common and uncommon vulnerabilities
- ✓ Assessing the codebase to ensure compliance with current best practices and industry standards.
- ✓ Ensuring contract logic meets the specifications and intentions of the client.
- ✓ Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- ✓ Thorough line-by-line manual review of the entire codebase by industry experts.

Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat



CURRENT STATS

(As of June 27, 2022)



Liquidity

Not added yet



Burn

No burnt tokens

Status:
Not Launched!

MaxTxAmount
5,000,000

DEX:
PancakeSwap

LP Address(es)

Liquidity not added yet



TOKEN TRANSFERS STATS

Transfer Count	4
Uniq Senders	2
Uniq Receivers	3
Total Amount	1921205934.6874998 YGDL
Median Transfer Amount	550000000 YGDL
Average Transfer Amount	480301483.67187494 YGDL
First transfer date	2022-06-26
Last transfer date	2022-06-27
Days token transferred	2

SMART CONTRACT STATS

Calls Count	13
External calls	3
Internal calls	10
Transactions count	6
Uniq Callers	3
Days contract called	2
Last transaction time	2022-06-27 17:13:48 UTC
Created	2022-06-26 21:55:30 UTC
Create TX	0x0ff083bcfb6ed9968955b4f1f030c24038738a7bb73248c012801fdb59db50ae
Creator	0xb316ba984df2cbe7a352bbc34b02cd2035977497

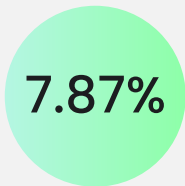


FEATURED WALLETS

Owner address	0xb316ba984df2cbe7a352bbc34b02cd2035977497
Marketing wallet	0x7c1a87439c9673b4e23b05044afea9165e430d9e
Dev wallet	Same as owner
LP address	Liquidity not added yet

TOP 3 UNLOCKED WALLETS

1



Same as owner



VULNERABILITY CHECK

Design Logic	Passed
Compiler warnings.	Passed
Private user data leaks	Passed
Timestamp dependence	Passed
Integer overflow and underflow	Passed
Race conditions and reentrancy. Cross-function race conditions	Passed
Possible delays in data delivery	Passed
Oracle calls	Passed
Front running	Passed
DoS with Revert	Passed
DoS with block gas limit	Passed
Methods execution permissions	Passed
Economy model	Passed
Impact of the exchange rate on the logic	Passed
Malicious Event log	Passed
Scoping and declarations	Passed
Uninitialized storage pointers	Passed
Arithmetic accuracy	Passed
Cross-function race conditions	Passed
Safe Zeppelin module	Passed
Fallback function security	Passed



THREAT LEVELS

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

High Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Medium Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Low Risk

Issues on this level are minor details and warning that can remain unfixed.

Informational

Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.



FOUND THREATS

⚠ Low Risk

Owner can set buy and sell fees combined up to 18%.

```
function setBUSDRewardsFeeBuy(uint256 val) external onlyOwner {
    require(val <= 15, "individual fees can not be more than higher than 15%");
    require(val + DevFeeBuy + MarketingFeeBuy + BUSDRewardsFeeSell + DevFeeSell +
MarketingFeeSell + BurnFee <= 15, "fees can not be more than higher than 15%");
    BUSDRewardsFeeBuy = val;
}
function setDevFeeBuy(uint256 val) external onlyOwner {
    require(val <= 15, "individual fees can not be more than higher than 15%");
    require( val + DevFeeBuy + MarketingFeeBuy + BUSDRewardsFeeSell + DevFeeSell +
MarketingFeeSell + BurnFee <= 15, "fees can not be more than higher than 15%");
    DevFeeBuy = val;
}
function setMarketingFeeBuy(uint256 val) external onlyOwner {
    require(val <= 15, "individual fees can not be more than higher than 15%");
    require( val + DevFeeBuy + MarketingFeeBuy + BUSDRewardsFeeSell + DevFeeSell +
MarketingFeeSell + BurnFee <= 15, "fees can not be more than higher than 15%" );
    MarketingFeeBuy = val;
}
function setBUSDRewardsFeesSell(uint256 val) external onlyOwner {
    require(val <= 15, "individual fees can not be more than higher than 15%");
    require(val + DevFeeBuy + MarketingFeeBuy + BUSDRewardsFeeSell + DevFeeSell +
MarketingFeeSell + BurnFee <= 15, "fees can not be more than higher than 15%");
    BUSDRewardsFeeSell = val;
}
function setDevFeeSell(uint256 val) external onlyOwner {
    require(val <= 15, "individual fees can not be more than higher than 15%");
    require(val + DevFeeBuy + MarketingFeeBuy + BUSDRewardsFeeSell + DevFeeSell +
MarketingFeeSell + BurnFee <= 15, "fees can not be more than higher than 15%");
    DevFeeSell = val;
}
function setMarketingFeeSell(uint256 val) external onlyOwner {
    require(val <= 15, "individual fees can not be more than higher than 15%");
    require(val + DevFeeBuy + MarketingFeeBuy + BUSDRewardsFeeSell + DevFeeSell +
MarketingFeeSell + BurnFee <= 15, "fees can not be more than higher than 15%");
    MarketingFeeSell = val;
}
function setBurnFee(uint256 val) external onlyOwner {
    require(val <= 15,"individual fees can not be more than higher than 15%");
    require(val + DevFeeBuy + MarketingFeeBuy + BUSDRewardsFeeSell + DevFeeSell +
MarketingFeeSell + BurnFee <= 15, "fees can not be more than higher than 15%");
    BurnFee = val;
}
```



FOUND THREATS

⚠ High Risk

Owner can change max sell transaction as low as 1 token. Market value of 1 token may be lower than the gas fees associated with the transaction.

```
function SetmaxSellTransactionAmount(uint256 maxSellTransactionAmount)
external onlyOwner {
    require(maxSellTransactionAmount > 1000000000000000000,
        "SellFee cant be lower than 0.1");
    _maxSellTransactionAmount = maxSellTransactionAmount;
}
```

- Recommendation:
 - Considered as good transaction limitations practice is that max amount transferred per transaction not be below 0.1% of total supply.



FOUND THREATS

⚠ High Risk

Once tokens deducted from fees reach the swapTokensAtAmount value, selling fails and the tokens cannot be swapped by the contract.

```
function setswapTokensAtAmount(uint256 swapTokensAtAmount)
    external onlyOwner{
        uint256 contractTokenBalance = balanceOf(address(this));
        require(swapTokensAtAmount >= contractTokenBalance,
            "swapTokensAtAmount cant be lower than current contract acumulated balance");
        _swapTokensAtAmount = swapTokensAtAmount;
    }
```



RECOMMENDATIONS FOR

GOOD PRACTICES

1

Consider fundamental tradeoffs

2

Be attentive to blockchain properties

3

Ensure careful rollouts

4

Keep contracts simple

5

Stay up to date and track development

Yggdrasil Finance

GOOD PRACTICES FOUND

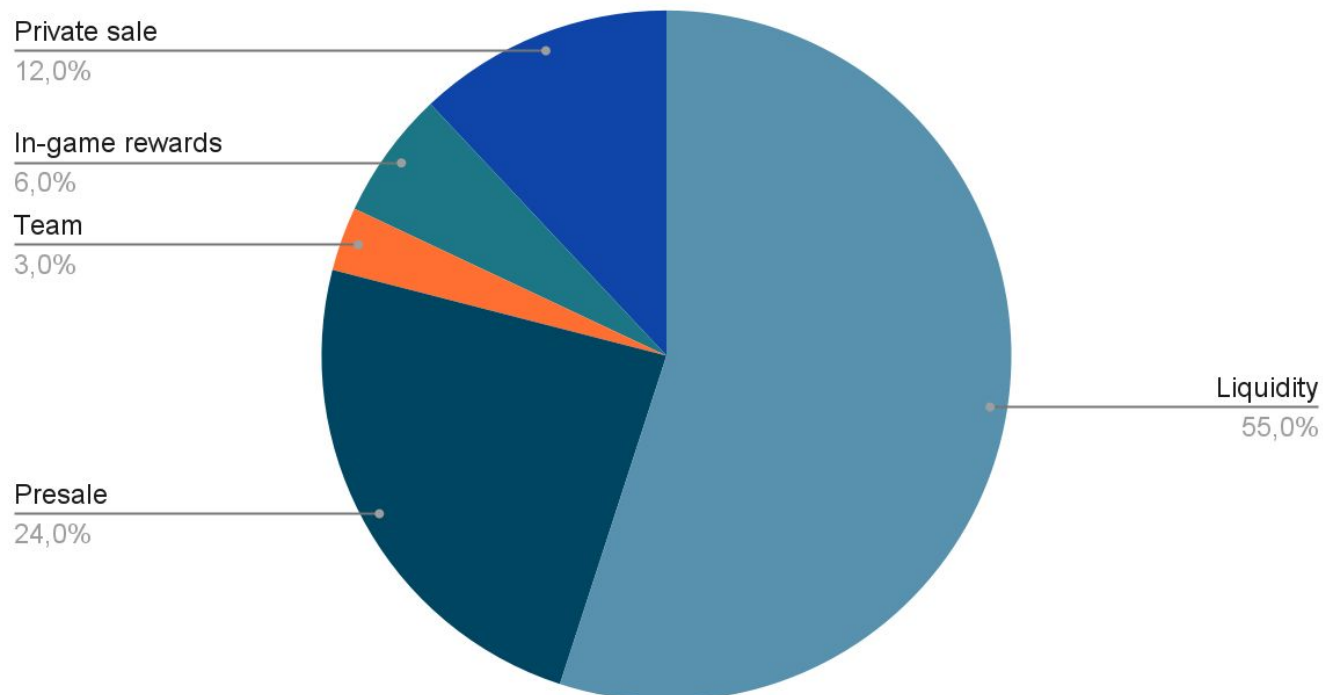
- ✓ The owner cannot mint new tokens after deployment
- ✓ The smart contract utilizes "SafeMath" to prevent overflows
- ✓ The owner cannot set taxes above reasonable levels



*The following tokenomics are based on the project's whitepaper and/or website:

- 24% - Presale
- 55% - Liquidity
- 12% - Private sale
- 3% - Team
- 6% - In-game rewards

Tokens distribution



TOKENOMICS



THE TEAM

The team has privately doxxed to SPYWOLF by completing the following KYC requirements:

- ID Verification
- Video statement
- Video interview with devs
- Owner's wallet verification

KYC INFORMATION

Issuer

SPYWOLF

Members KYC'd



KYC Date

JUNE 27, 2022

Format

Image

Certificate Link

https://github.com/SpyWolfNetwork/KYCs/blob/main/june/KYC_YGGDRASILNETWORK_0x9b91e3956f38634FbF25D8Fb0A0B0ba1A8531AE6.png





WEBSITE

Website URL

<https://ygdl.network/>

Domain Registry

<http://porkbun.com>

Domain Expiration

Expires on 2023-12-20

Technical SEO Test

Passed

Security Test

Passed. SSL certificate present

Design

Single page, template design, appropriate color scheme.

Content

The information helps new investors understand what the product does right away. No grammar errors found.

Whitepaper

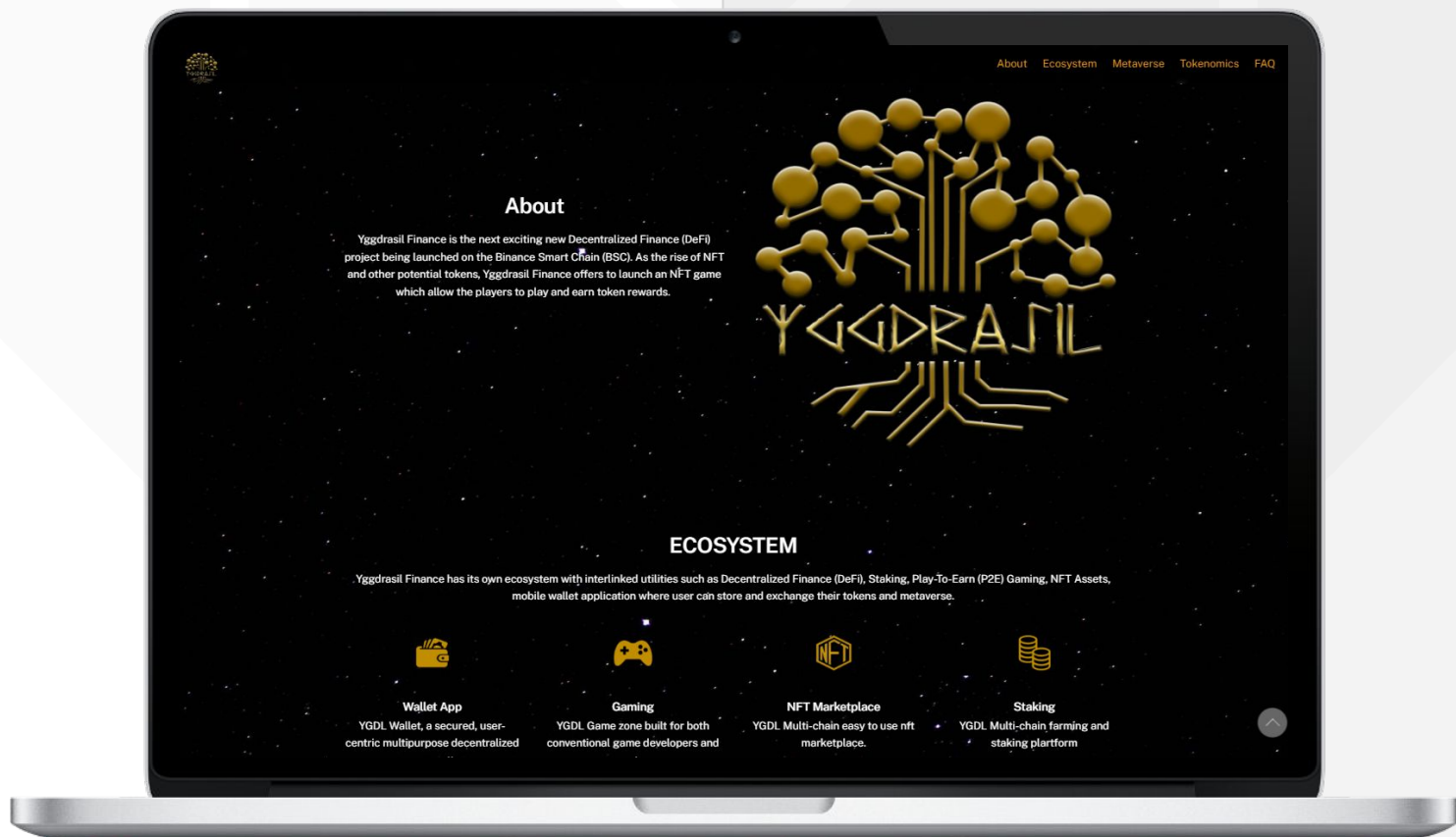
Well written but a bit short.

Roadmap

No ⚠️

Mobile-friendly?

Yes



ygdl.network



SOCIAL MEDIA & ONLINE PRESENCE



ANALYSIS

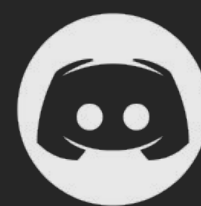
Project's social media presence is relatively new (few days old). The mods are active, but there are few organic interactions yet.



Twitter

@YGDLNetwork

- 5 388 followers
- Active
- Recently activated, 6 posts in total
- Significant number of bot followers ⚠



Discord

- Not available



Telegram

@YGDLNetwork

- 5 193 members
- Active mods
- Few organic interactions



Medium

- Not available



SPYWOLF

CRYPTO SECURITY

Audits | KYCs | dApps
Contract Development

ABOUT US

We are a growing crypto security agency offering audits, KYCs and consulting services for some of the top names in the crypto industry.

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contact@spywolf.co or
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Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.

While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.